

FIGURE 1

Use corresponding activity-based probe to identify the biological target

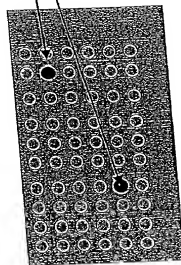
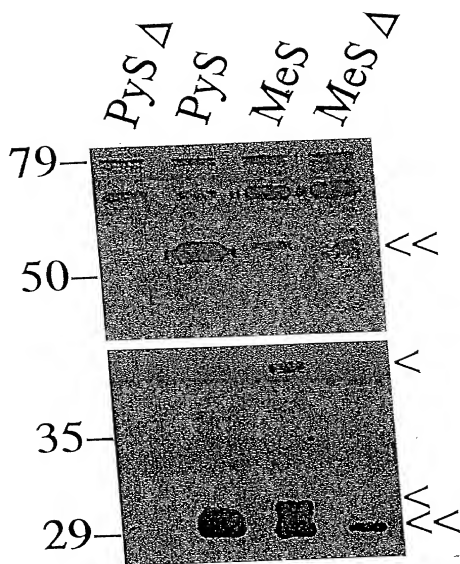


FIGURE 2



Non-Directed Tagged Library of Sulfonates Identifies Probe for ADH Superfamily of Enzymes

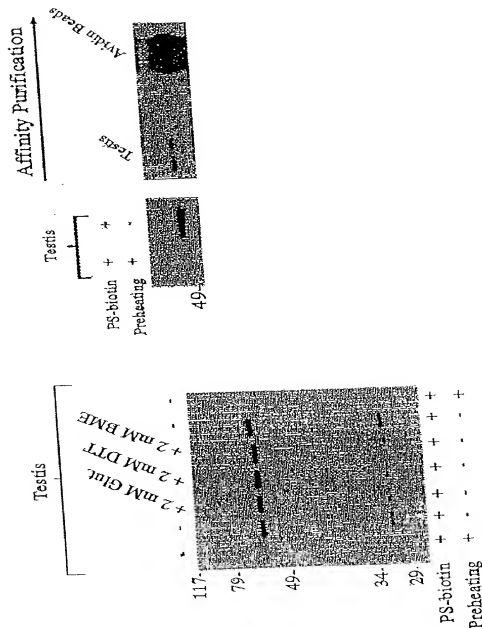
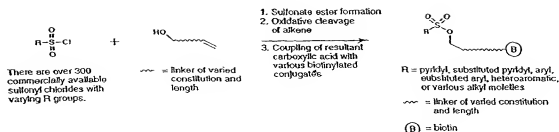
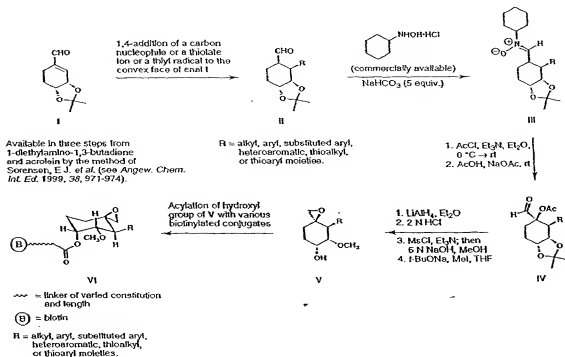


FIGURE 3

FIGURE 4



Scheme 1. A pathway for syntheses of various biotinylated sulfonate esters for use in activity based proteomics studies.



FP-Biotin: a kinetic reporter of SH Activity

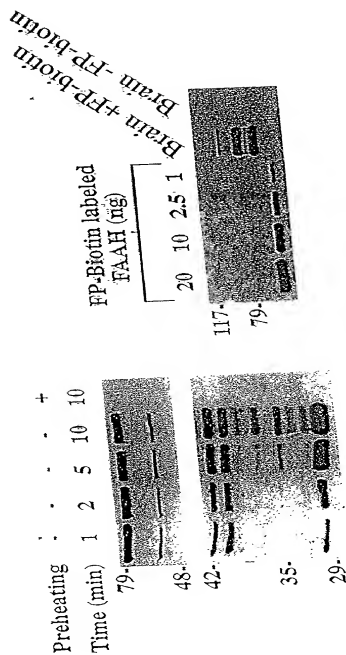


FIGURE 5

Utility of Multiplexed probes in identifying Serine Hydrolases

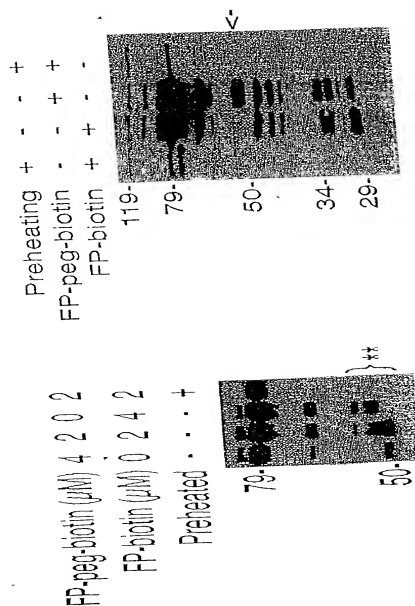
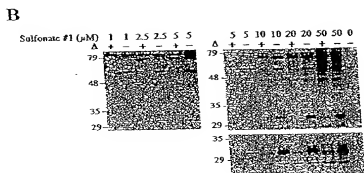
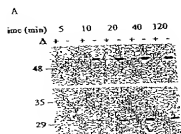


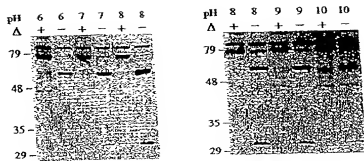
FIGURE 6

FIGURE 7

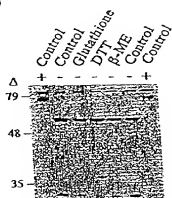


7

C



D



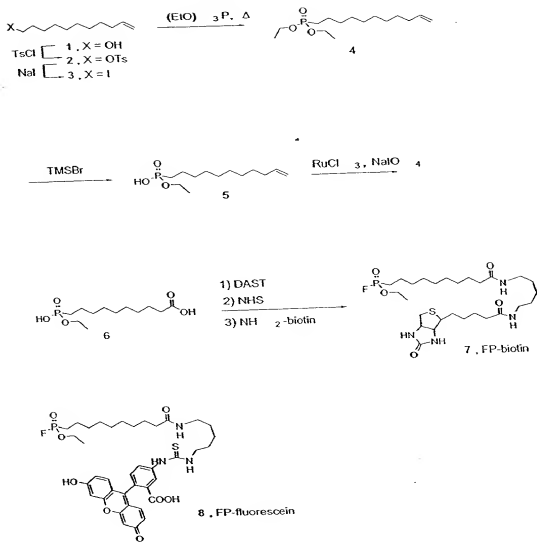


FIGURE 9

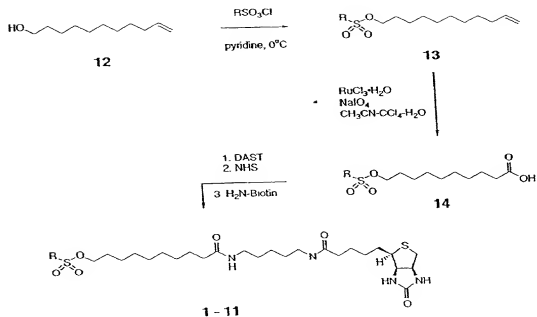
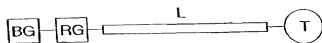
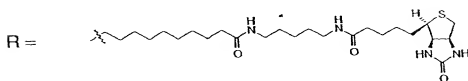


FIGURE 10

A.



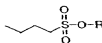
B.



1



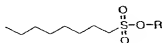
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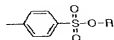
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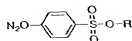
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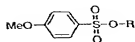
3



8



4



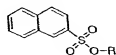
9



5



10

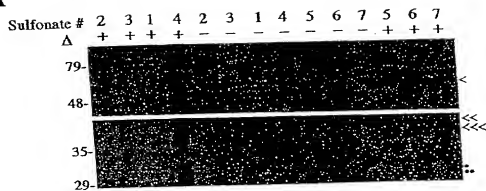


11



FIGURE 11

A



B

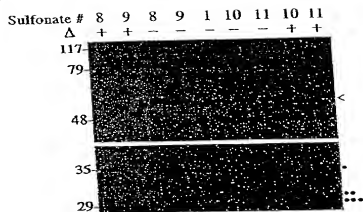


FIGURE 12

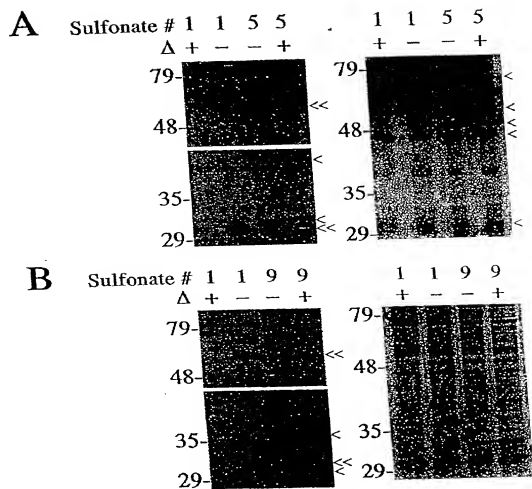
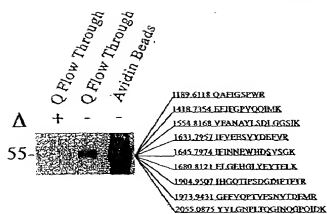
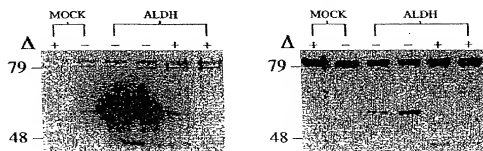


FIGURE 13

A



B



C

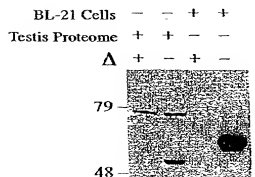
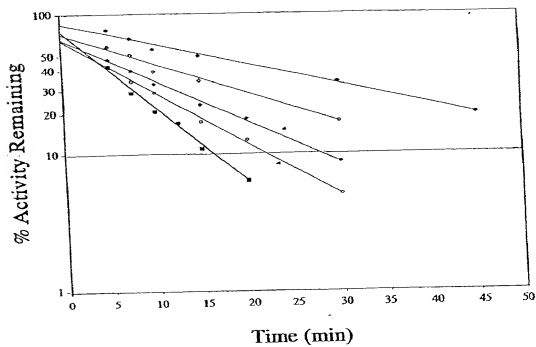


FIGURE 14

A



B

Competitor #	-	-	15	17	16	15	17	16
[Competitor (μ M)]	0	0	5	5	5	50	50	50
Δ	+	-	-	-	-	-	-	-



FIGURE 15

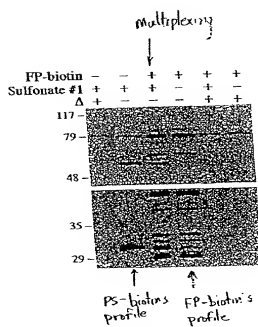


FIGURE 16

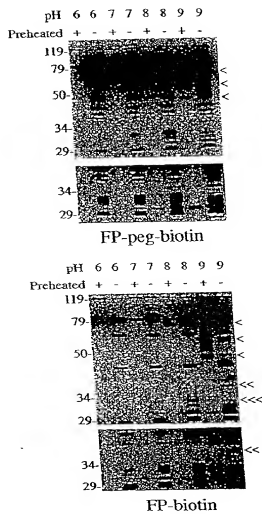


FIGURE 17

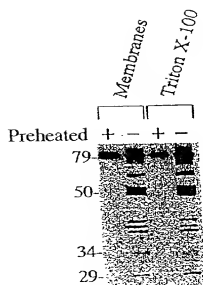


FIGURE 18

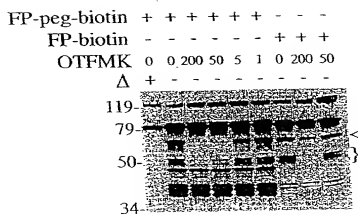


FIGURE 19

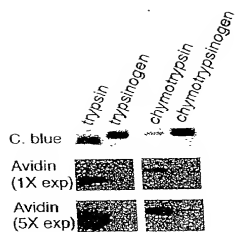
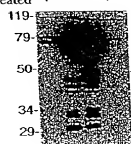


FIGURE 20

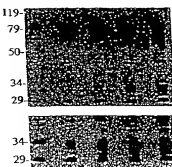
A

FP-peg-biotin - - + +
 FP-biotin + + - -
 Preheated + - - +



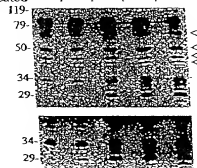
B

FP-biotin (μ M) 0.5 1 1 2 2 4 4 8 8
 Preheated - - + - + - + -



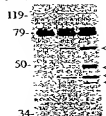
C

FP-peg-biotin (μ M) 0.5 1 1 2 2 4 4 8 8
 Preheated - - + - + - + -



D

FP-peg-biotin (μ M) 1 2 8



One minute
 reaction

FIGURE 21

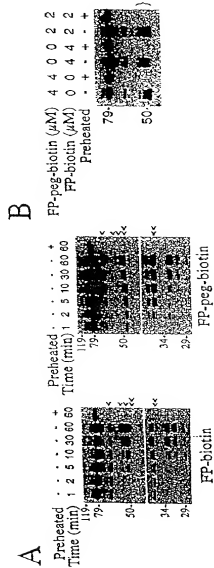


FIGURE 22

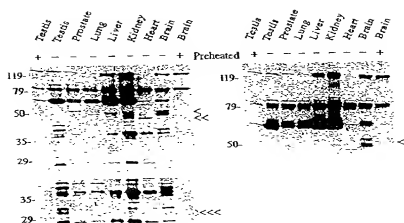


FIGURE 23

